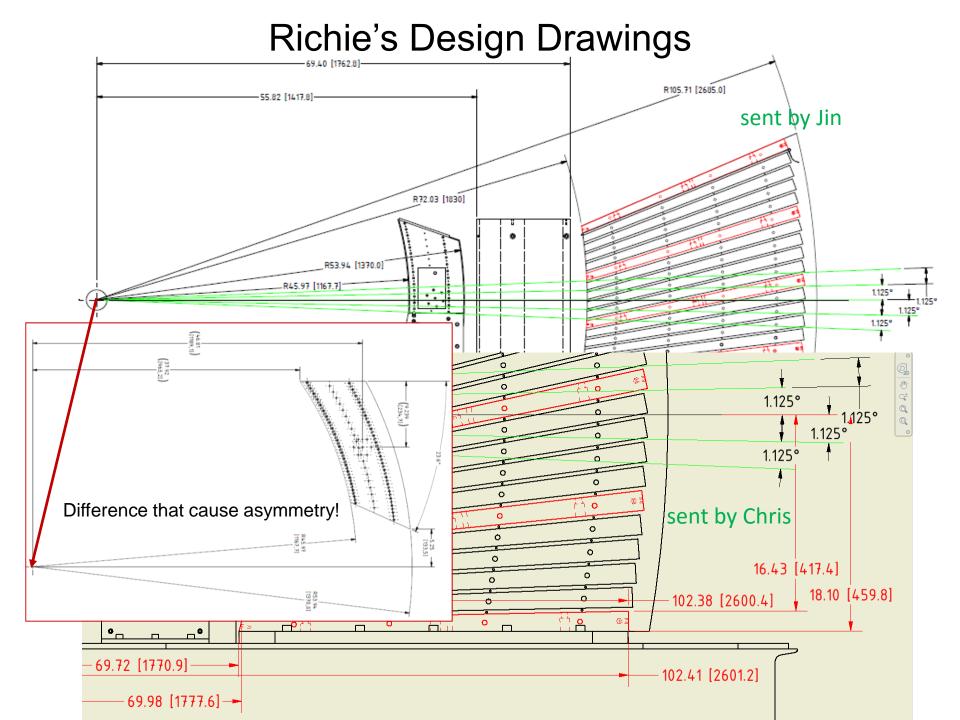
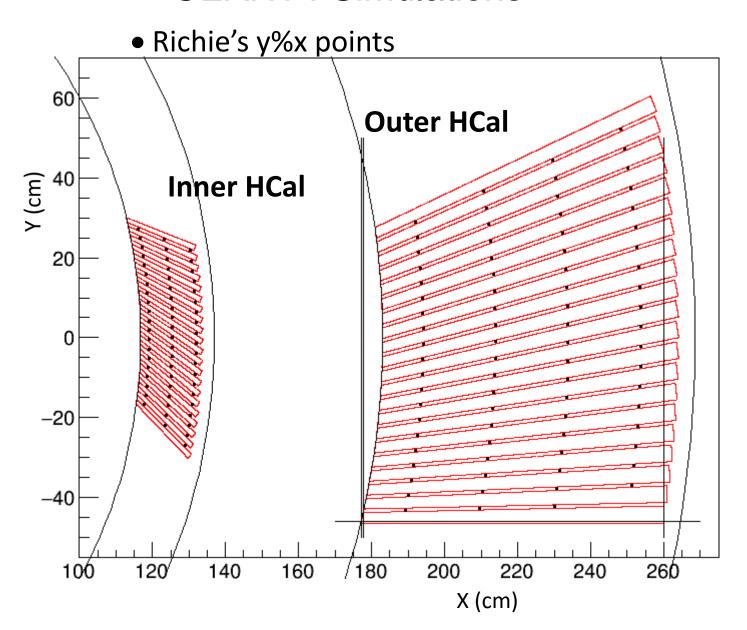
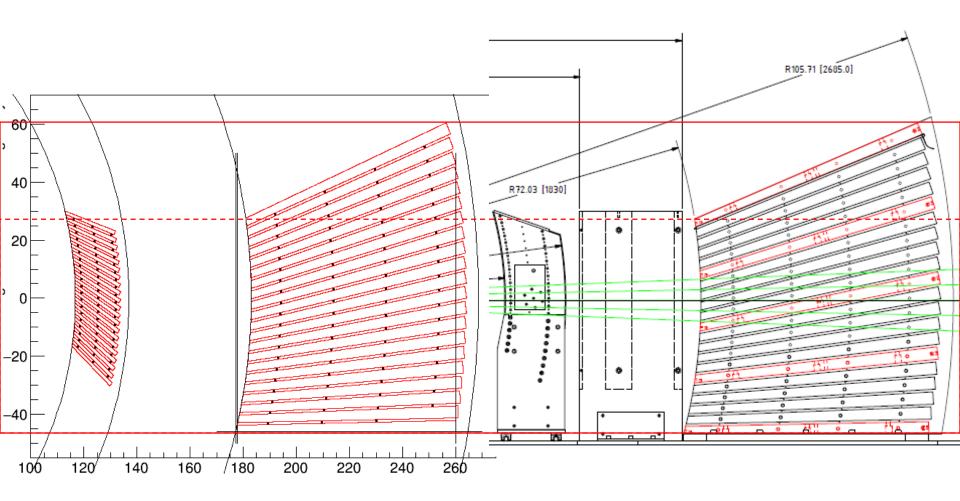
# Hadronic Calorimeter Prototype2 Simulation Update

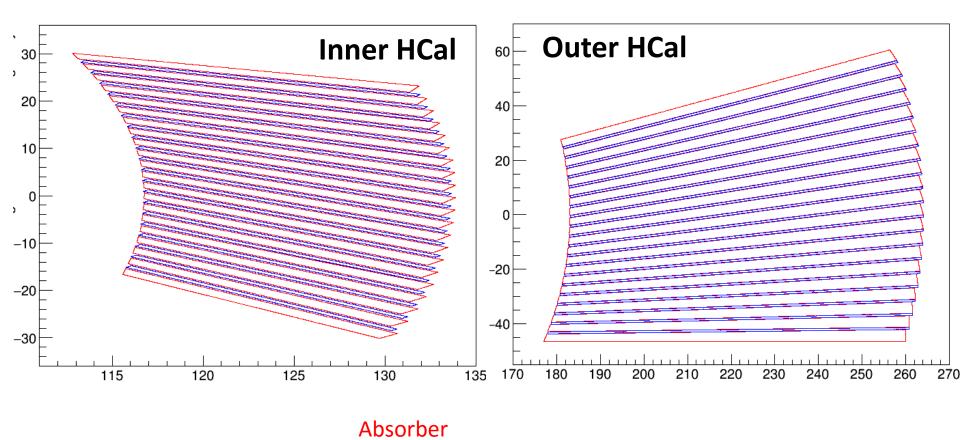
M. Sarsour (GSU)

February 16, 2016





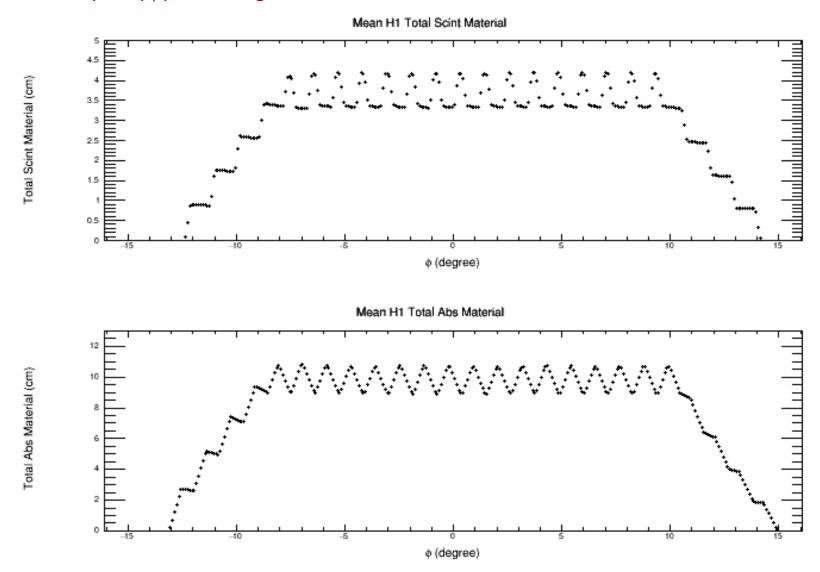




Scintillator

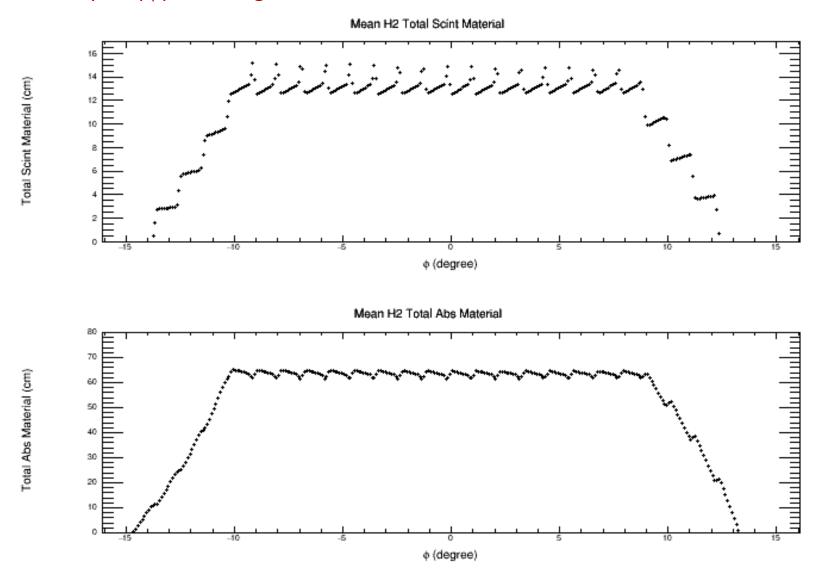
### Material Scan w/ GEANTINOS / Inner HCal

• Beam spot:  $|\phi|$  < 0.5 deg. Centered at -5°, 0°, and 5°

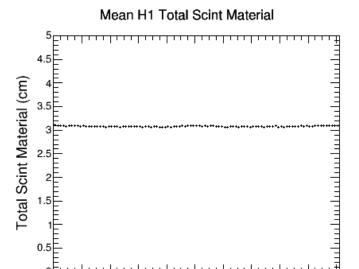


### Material Scan w/ GEANTINOS / Outer HCal

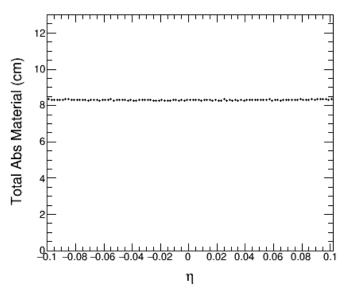
• Beam spot:  $|\phi| < 0.5$  deg. Centered at -5°, 0°, and 5°

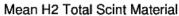


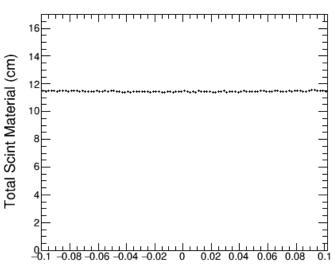
# Material Scan w/ GEANTINOS



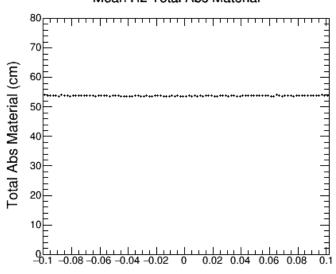




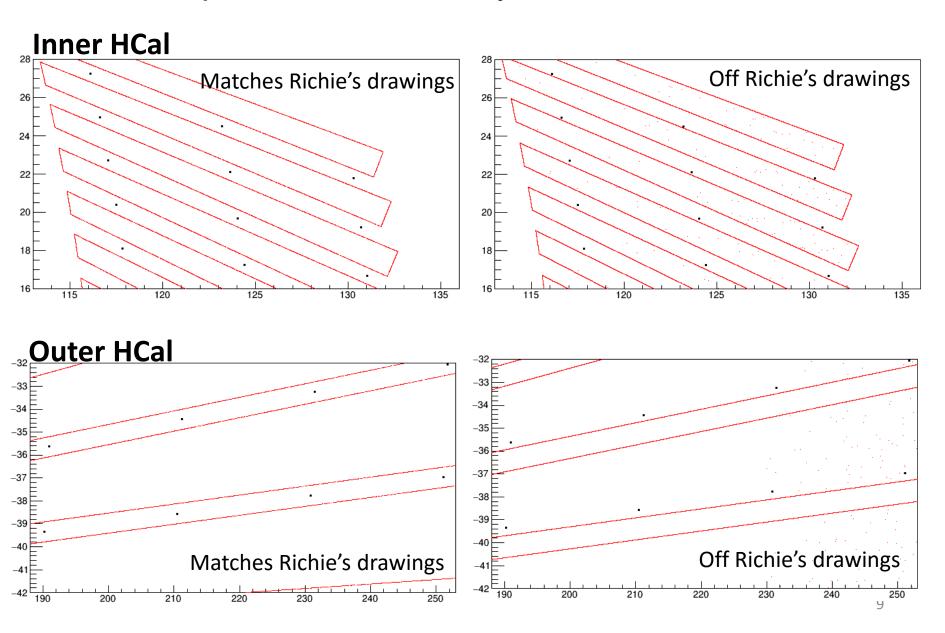


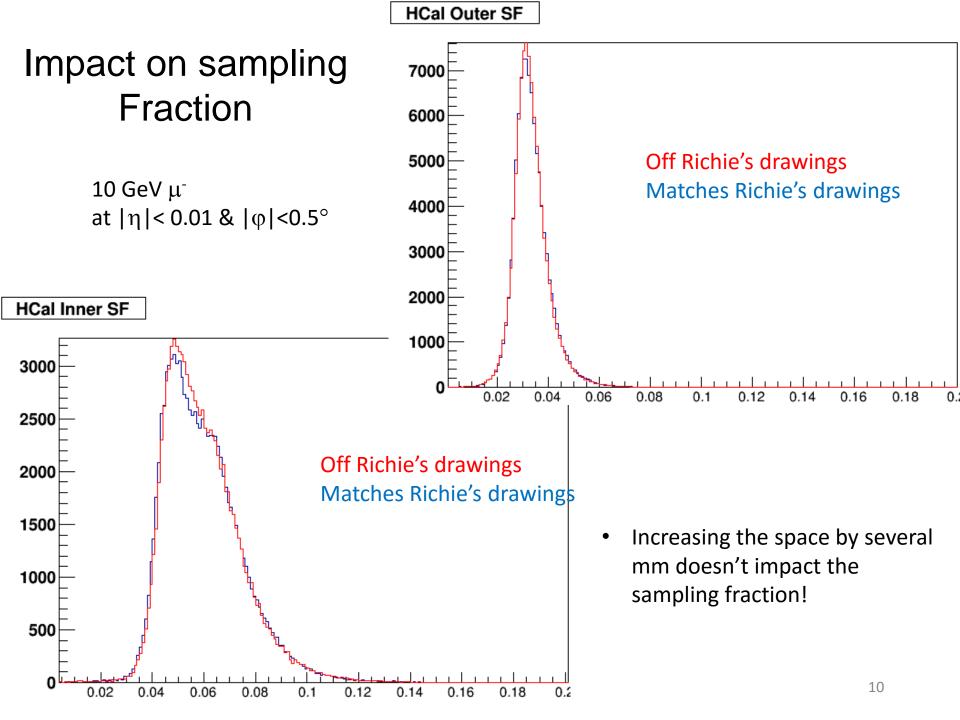


#### Mean H2 Total Abs Material



# What if the positions are off by several mm?





# Summary & To do

- Geometry describes the simulation very well?
- Carry out simulation studies similar to those done for prototype1

# Richie's Design Drawings

